

CUTTING, PROFILING, AND EDGE-PREPARING APPARATUS

ABSTRACT OF THE INVENTION

An apparatus for cutting and/or profile machining an edge of a pipe is provided. The apparatus includes a housing, a rotatable faceplate mounted on a front surface of the housing, and a tool holder mounted on the faceplate and holding a cutting tool. In a first embodiment, a cutting apparatus includes gearing that permits the tool holder to be moved relative to a surface of a pipe in a rapid-feed mode, a slow-feed mode and a rapid-return mode. In second and third embodiments, a profile machining apparatus includes a carriage having a profiling roller or shaft that advances (or retracts) relative to a pipe along a path defined by a template. The carriage to which the cutting tool is mounted is pivoted about a support shaft permitting the carriage and tool to change its angle and orientation relative to the pipe while advancing or retracting.